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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-08-08-37** **Date: 20-02-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Additional Class Rooms to Govt.Higher Primary School of Singapura in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.
Agency	:	Sri.M.D.Srinivas, #13, Beereshwaranilaya, 2nd Main, M.Venkategowda Layout, Hebbala-Kempapura, Bangalore-560 024.
Customer's Reference	:	BBMP/EE/BTP/WO/87/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-02-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	18-02-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	_
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.13	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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All information furnished by Customer/Representative

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-08-08-37** **Date: 18-03-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Additional Class Rooms to Govt.Higher Primary School of Singapura in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.
Agency	:	Sri.M.D.Srinivas, #13, Beereshwaranilaya, 2nd Main, M.Venkategowda Layout, Hebbala-Kempapura, Bangalore-560 024.
Customer's Reference	:	BBMP/EE/BTP/WO/87/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-02-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	18-02-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-08-08-37** **Date: 20-02-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Additional Class Rooms to Govt.Higher Primary School of Singapura in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.
Agency	:	Sri.M.D.Srinivas, #13, Beereshwaranilaya, 2nd Main, M.Venkategowda Layout, Hebbala-Kempapura, Bangalore-560 024.
Customer's Reference	:	BBMP/EE/BTP/WO/87/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	18-02-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	17-02-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-08-08-37** **Date: 20-02-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	_
4	Bulk Density(Loose) (Kg/l)	1.41	_
5	Bulk Density(Compacted) (Kg/l)	1.47	_
6	Water Absorption(%)	0.23	_

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-08-08-37** **Date: 19-02-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Additional Class Rooms to Govt.Higher Primary School of Singapura in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.
Agency	:	Sri.M.D.Srinivas, #13, Beereshwaranilaya, 2nd Main, M.Venkategowda Layout, Hebbala-Kempapura, Bangalore-560 024.
Customer Reference	:	BBMP/EE/BTP/WO/87/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-02-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	17-02-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-08-08-37** **Date: 19-02-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.43	–
5	Bulk Density(Compacted) (Kg/l)	1.49	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-08-08-37** **Date: 19-02-19**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Additional Class Rooms to Govt.Higher Primary School of Singapura in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Sri.M.D.Srinivas, #13, Beereshwaranilaya, 2nd Main, M.Venkategowda Layout, Hebbala-Kempapura, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/87/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-02-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 17-02-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-08-08-37** **Date: 19-02-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2019-08-08-37** **Date: 25-02-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Additional Class Rooms to Govt.Higher Primary School of Singapura in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.
Agency	:	Sri.M.D.Srinivas, #13, Beereshwaranilaya, 2nd Main, M.Venkategowda Layout, Hebbala-Kempapura, Bangalore-560 024.
Customer's Reference	:	BBMP/EE/BTP/WO/87/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-02-19
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex - C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	21-02-19

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	403	153	202	12455	32.973	2647.3	2706.0	Not less than 1800Kg/m^3
2	402	148	201	11959	32.367	2706.6		
3	403	149	200	12009	33.194	2764.0		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.42	4.39	4.12	Shall not be more than 10% by mass
2	33.57	32.04	4.58		
3	33.44	32.31	3.39		

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Lab ID : **CP-2019-08-08-37** **Date: 25-02-19**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	400	152	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	404	153	202	
3	403	149	200	
4	403	152	203	
5	401	152	202	
6	399	151	202	
7	400	151	202	
8	404	150	200	
9	400	150	201	
10	402	150	202	
11	400	152	199	
12	402	149	199	
13	401	153	199	
14	403	152	200	
15	404	151	199	
16	400	150	203	
17	400	151	203	
18	403	150	200	
19	402	151	201	
20	401	151	201	
Average of 20	**402**	**151**	**201**	

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Lab ID : **CP-2019-08-08-37** **Date: 25-02-19**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	152	60826	277.8	4.6	4.5
2	404	153	61783	276.3	4.5	
3	403	149	60021	265.1	4.4	
4	403	152	61269	269.6	4.4	
5	401	152	60892	278.9	4.6	
6	399	151	60280	266.3	4.4	
7	400	151	60352	273.5	4.5	
8	404	150	60597	258.8	4.3	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Quality Manager

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-08-08-37** **Date: 27-02-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Additional Class Rooms to Govt.Higher Primary School of Singapura in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.
Agency	:	Sri.M.D.Srinivas, #13, Beereshwaranilaya, 2nd Main, M.Venkategowda Layout, Hebbala-Kempapura, Bangalore-560 024.
Customer's Reference	:	BBMP/EE/BTP/WO/87/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-02-19
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	26-02-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-08-37** **Date: 07/03/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Additional Class Rooms to Govt.Higher Primary School of Singapura in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Sri.M.D.Srinivas, #13, Beereshwaranilaya, 2nd Main, M.Venkategowda Layout, Hebbala-Kempapura, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/87/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-03-19

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M20	28/02/2019	07/03/2019	149.34 X 149.77 X 149.08	22367	**8.713**	417.8	18.7	18.7
2	Column Concrete	M20	28/02/2019	07/03/2019	150.18 X 151.45 X 151.15	22744	**8.960**	422.0	18.6	
3	Column Concrete	M20	28/02/2019	07/03/2019	150.01 X 149.77 X 151.74	22466	**8.041**	424.7	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-08-37** **Date: 28/03/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Additional Class Rooms to Govt.Higher Primary School of Singapura in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Sri.M.D.Srinivas, #13, Beereshwaranilaya, 2nd Main, M.Venkategowda Layout, Hebbala-Kempapura, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/87/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-03-19

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M20	28/02/2019	28/03/2019	150.88 X 149.55 X 150.17	22564	**8.450**	522.3	23.1	23.3
2	Column Concrete	M20	28/02/2019	28/03/2019	150.69 X 150.88 X 149.56	22735	**8.893**	516.5	22.7	
3	Column Concrete	M20	28/02/2019	28/03/2019	150.07 X 149.02 X 149.85	22364	**8.581**	535.0	23.9	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-08-37** **Date: 12/03/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Additional Class Rooms to Govt.Higher Primary School of Singapura in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Sri.M.D.Srinivas, #13, Beereshwaranilaya, 2nd Main, M.Venkategowda Layout, Hebbala-Kempapura, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/87/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-03-19

Customer ID : Lintel Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M20	05/03/2019	12/03/2019	149.37 X 151.07 X 149.93	22565	**8.713**	408.2	18.1	18.3
2	Lintel Concrete	M20	05/03/2019	12/03/2019	150.24 X 151.42 X 150.42	22749	**8.960**	426.5	18.7	
3	Lintel Concrete	M20	05/03/2019	12/03/2019	150.89 X 151.55 X 151.60	22868	**8.041**	415.0	18.1	

Note:

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-08-37** **Date: 02/04/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Additional Class Rooms to Govt.Higher Primary School of Singapura in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Sri.M.D.Srinivas, #13, Beereshwaranilaya, 2nd Main, M.Venkategowda Layout, Hebbala-Kempapura, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/87/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-03-19

Customer ID : Lintel Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M20	05/03/2019	02/04/2019	151.01 X 151.96 X 149.51	22948	**8.450**	534.7	23.3	22.9
2	Lintel Concrete	M20	05/03/2019	02/04/2019	149.60 X 149.95 X 151.17	22434	**8.893**	500.7	22.3	
3	Lintel Concrete	M20	05/03/2019	02/04/2019	151.42 X 151.31 X 150.84	22912	**8.581**	530.6	23.2	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-08-37** **Date: 25/04/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Additional Class Rooms to Govt.Higher Primary School of Singapura in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Sri.M.D.Srinivas, #13, Beereshwaranilaya, 2nd Main, M.Venkategowda Layout, Hebbala-Kempapura, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/87/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-03-19

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	28/03/2019	25/04/2019	150.13 X 151.18 X 151.68	22696	**8.450**	535.4	23.6	23.2
2	Roof Concrete	M20	28/03/2019	25/04/2019	150.22 X 149.70 X 150.96	22489	**8.893**	511.9	22.8	
3	Roof Concrete	M20	28/03/2019	25/04/2019	149.81 X 149.90 X 151.58	22456	**8.581**	520.2	23.2	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-08-37** **Date: 04/04/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Additional Class Rooms to Govt.Higher Primary School of Singapura in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Sri.M.D.Srinivas, #13, Beereshwaranilaya, 2nd Main, M.Venkategowda Layout, Hebbala-Kempapura, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/87/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-03-19

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	28/03/2019	04/04/2019	149.04 X 150.49 X 149.76	22429	**8.713**	425.9	19.0	18.9
2	Roof Concrete	M20	28/03/2019	04/04/2019	150.88 X 150.92 X 150.13	22771	**8.960**	428.0	18.8	
3	Roof Concrete	M20	28/03/2019	04/04/2019	149.01 X 149.83 X 151.50	22326	**8.041**	419.7	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-08-37** **Date: 04/04/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Additional Class Rooms to Govt.Higher Primary School of Singapura in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Sri.M.D.Srinivas, #13, Beereshwaranilaya, 2nd Main, M.Venkategowda Layout, Hebbala-Kempapura, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/87/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-03-19

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	28/03/2019	04/04/2019	150.10 X 150.06 X 150.65	22525	**8.713**	423.4	18.8	18.4
2	Roof Concrete	M20	28/03/2019	04/04/2019	151.87 X 149.62 X 149.79	22724	**8.960**	411.5	18.1	
3	Roof Concrete	M20	28/03/2019	04/04/2019	151.86 X 150.76 X 149.06	22893	**8.041**	420.1	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-08-37** **Date: 25/04/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Additional Class Rooms to Govt.Higher Primary School of Singapura in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Sri.M.D.Srinivas, #13, Beereshwaranilaya, 2nd Main, M.Venkategowda Layout, Hebbala-Kempapura, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/87/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-03-19

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	28/03/2019	25/04/2019	150.93 X 151.64 X 150.75	22888	**8.450**	530.9	23.2	23.0
2	Roof Concrete	M20	28/03/2019	25/04/2019	150.89 X 149.83 X 151.92	22607	**8.893**	503.1	22.3	
3	Roof Concrete	M20	28/03/2019	25/04/2019	150.16 X 150.65 X 149.60	22621	**8.581**	529.6	23.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-08-37** **Date: 04/04/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Additional Class Rooms to Govt.Higher Primary School of Singapura in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Sri.M.D.Srinivas, #13, Beereshwaranilaya, 2nd Main, M.Venkategowda Layout, Hebbala-Kempapura, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/87/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-03-19

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	28/03/2019	04/04/2019	149.44 X 150.44 X 151.63	22482	**8.713**	409.7	18.2	18.5
2	Roof Concrete	M20	28/03/2019	04/04/2019	149.55 X 150.96 X 149.49	22576	**8.960**	417.8	18.5	
3	Roof Concrete	M20	28/03/2019	04/04/2019	149.39 X 151.53 X 150.03	22636	**8.041**	426.2	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-08-37** **Date: 25/04/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Additional Class Rooms to Govt.Higher Primary School of Singapura in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Sri.M.D.Srinivas, #13, Beereshwaranilaya, 2nd Main, M.Venkategowda Layout, Hebbala-Kempapura, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/87/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-03-19

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	28/03/2019	25/04/2019	151.37 X 149.33 X 150.33	22603	**8.450**	538.3	23.8	23.4
2	Roof Concrete	M20	28/03/2019	25/04/2019	149.65 X 149.31 X 150.78	22345	**8.893**	511.4	22.9	
3	Roof Concrete	M20	28/03/2019	25/04/2019	149.59 X 149.13 X 149.10	22308	**8.581**	526.0	23.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-08-37** **Date: 04/04/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Additional Class Rooms to Govt.Higher Primary School of Singapura in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Sri.M.D.Srinivas, #13, Beereshwaranilaya, 2nd Main, M.Venkategowda Layout, Hebbala-Kempapura, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/87/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-03-19

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	28/03/2019	04/04/2019	150.94 X 151.61 X 149.02	22884	**8.713**	423.6	18.5	18.7
2	Roof Concrete	M20	28/03/2019	04/04/2019	149.55 X 149.67 X 150.49	22383	**8.960**	417.4	18.6	
3	Roof Concrete	M20	28/03/2019	04/04/2019	149.41 X 150.31 X 150.50	22457	**8.041**	423.6	18.9	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-08-37** **Date: 25/04/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Additional Class Rooms to Govt.Higher Primary School of Singapura in Ward No.11 (Kuvempunagara) Vidyaranyapura Sub Division.

Agency : Sri.M.D.Srinivas, #13, Beereshwaranilaya, 2nd Main, M.Venkategowda Layout, Hebbala-Kempapura, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/87/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-03-19

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	28/03/2019	25/04/2019	151.89 X 151.15 X 150.47	22959	**8.450**	540.1	23.5	23.1
2	Roof Concrete	M20	28/03/2019	25/04/2019	151.29 X 149.23 X 151.46	22577	**8.893**	499.4	22.1	
3	Roof Concrete	M20	28/03/2019	25/04/2019	149.20 X 149.18 X 151.22	22259	**8.581**	523.6	23.5	

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